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### Corn Production Guide : A Summary of Recommendations

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# CORN PRODUCTION GUIDE

## A Summary of Recommendations



*Cooperative Extension Service*

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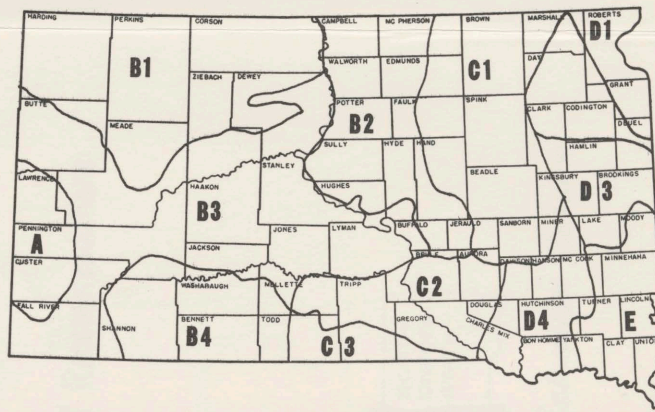
# CORN PRODUCTION GUIDE

Information for this chart comes from L. A. Derscheid, R. A. Cline, E. E. Sanderson, E. J. Langin, Earl Adams, and K. R. Frost, of the Agronomy Department; and B. H. Kantack, of the Entomology Department. All of these men are specialists with the South Dakota State University Cooperative Extension Service.



CROP ADAPTATION AREA	MATURITY RANGE OF HYBRID DAYS	DESIRABLE POPULATION 1000 PLANTS/ACRE	SEEDING DATE*
B1	85-90	4-6	Mid-May
B2	85-95	6-8	
B3	85-90	4-6	
B4		6-8	
C1	85-95	8-10	May 15-25
C2	90-100		May 10-20
C3			
D1	95-100	10-12	May 15-20
D2	85-95	8-10	
D3	95-100	10-12	May 10-20
D4	100-105		May 10-15
E	100-110	12-16	May 5-15

\* Use treated seed.



Irrigation	5-15 days later than for dryland in same area	16-18	Same as for dry- land corn in same area
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Use fertilizer to  
of low fertility or in  
South Dakota con  
available phosph  
and previous crop  
be estimated by c

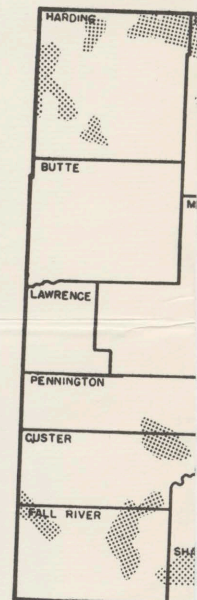
Available  
P  
(lb/A)

0-5  
5-15  
15-25  
25 or over

0-5  
5-15  
15-25  
25 or over

Class

High Corn follo  
manure;  
Medium Corn follo  
falfa; Sw  
Low Continuo  
ing soybe



Use more fertili  
yield potentials are  
dryland. Your are  
(P<sub>2</sub>O<sub>5</sub>), and 1 poun  
pected from irrigat

**SOUT**



# ND DAKOTA STATE UNIVERSITY COOPERATIVE



## CORN ROOTWORMS

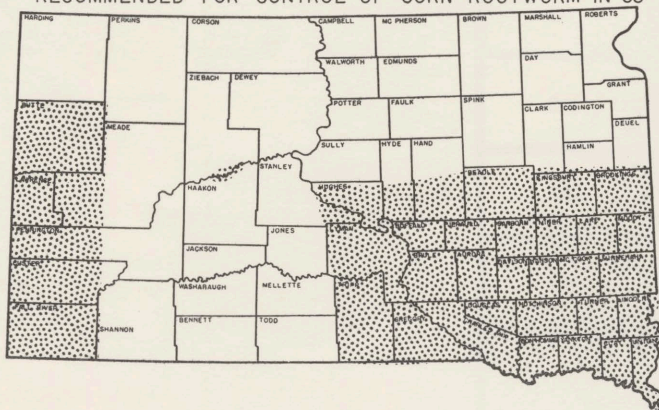
Use organic phosphate insecticides such as Diazinon, Thimet, or Niran (stabilized parathion) to control western rootworm in areas shaded in the map below. For best results apply granular forms in 4- to 7-inch bands over the rows (not with seed or fertilizer) at planting time and incorporate into the upper  $\frac{1}{2}$  inch of soil. Use at least 1 pound of active ingredient (10 lbs. of 10% granules or 7 lbs. of 14% granules) per acre of field—equivalent to 1 pound active ingredient on each 13,080 linear feet of row (10 pounds on each acre treated in 4-inch bands or 5.7 pounds in 7-inch bands.) Do not till (harrow, rotary hoe, etc.) diagonally or crosswise or it will reduce concentration of insecticide.

Applications may be made during first or second cultivation using attachments that allow the cultivator to incorporate insecticide, but it may be less effective.

Use chlorinated hydrocarbons in unshaded areas of the map to control northern rootworms. Apply broadcast while preparing the seedbed or in bands over the rows while planting. Use 1 pound active ingredient (5 lbs. of 20% granules or  $\frac{1}{2}$  gal. of 2 lbs./gal. emulsifiable concentrate) per acre on each acre in the field if applied in bands. Apply band applications behind planter shoe, ahead of packer wheels. Do not apply in mixtures with fertilizer or herbicide.

of corn plant when  
plant is 15 inches

AREAS WHERE ORGANIC PHOSPHATE INSECTIDES ARE  
RECOMMENDED FOR CONTROL OF CORN ROOTWORM IN '65



## CORN BORER

Treatment of field corn for first brood will be profitable if 50-75% of the plants show leaf feeding in the whorl. This feeding injury will appear sometime after mid-June in South Dakota. Second brood treatments will be profitable when an average of one egg mass per plant can be found.

Insecticides can be applied either as granules or sprays. The following recommended insecticides can be applied either as granules or sprays:

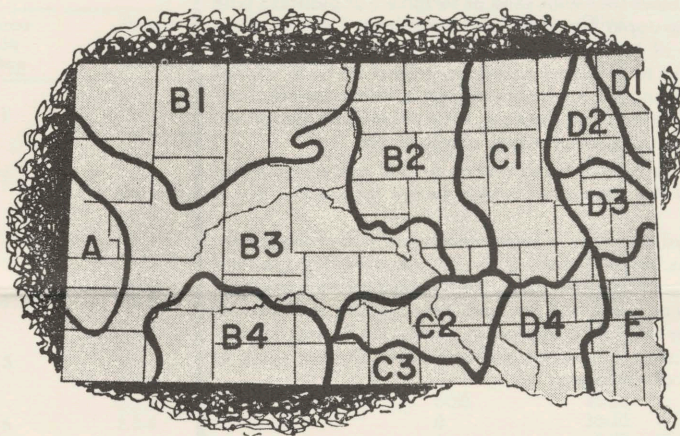
Carbaryl (Sevin) wettable powder spray applied at the rate of 1.5 lbs. active ingredient per acre, or 30 lbs. of 5% granules per acre.

Commercial applicators may use endrin at the rate of 0.2 lbs. active ingredient per acre as a spray or 5 lbs. of 1% granules per acre. This treatment is restricted to one application per season. Do not treat within 45 days of harvest or ensiling. Do not feed the treated forage to dairy animals or to beef animals destined for slaughter. Check for the latest recommendations with your county agent.

For information on corn diseases see fact sheets "Stalk Rots of Corn," "Ear Rots of Corn," "Corn Leaf Blight," "Corn Smut," and "Seed Treatment."



## CROP ADAPTATION AREAS OF SOUTH DAKOTA





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SOUTH DAKOTA STATE UNIVERSITY  
BROOKINGS, SOUTH DAKOTA 57007

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